

equipment supplied as remediation of any contractual shortfall. If any software upgrades are unable to meet test criteria, then the contractor is required to continue support for the existing software complement until such time as the upgraded software can meet test criteria. All portions of the tests will be done during the same 30 consecutive day period within a 90 day window for each subsystem. Should the contractor fail to meet any of the tests, the contract may be terminated for default or the Government (at its discretion) may negotiate alternative remedies. Each subsystem will be accepted separately. Failure to meet a performance target may be remedied by providing additional or substitute hardware and software (any source code modifications to the benchmarks other than Class A must be approved by the Government). If additional or substitute hardware causes a facility impact, the contractor shall be required to remedy the facility impact.

The glossary in section C of this document will provide the definitions for terms used in this section.

E.2.2 Availability and Reliability

Each subsystem of the R&D HPCS shall meet or exceed the proposed availability.

The minimum amount of time charged for a failed component within a subsystem will be four (4) hours. This will be tested during the acceptance test period with a job load supplied by the Government. This job load will include jobs submitted by both users and administrators of the system. Administrators may submit applications that have been shown to be problematic on previous systems. Some of these applications are available at <http://rdhpcs.noaa.gov/TestCodes>. All of the codes from the workstreams are expected to run on the subsystems for which they were bid.

The Government, at its discretion, may provide a series of carefully monitored workstreams that may include up to twenty-five (25) individual batch jobs. These workstreams will be monitored for end-to-end success. Complete or partial failure of any intermediate step will result in declaring the workstream to have failed. Success will be determined as the number of successful workstreams divided by the number of attempted workstreams in a 30 day period per subsystem. This ratio must be **equal to or greater than the proposed availability** during the acceptance test period as well as during the life of the contract. Failures due to null time, application errors, or data errors will not be included in either the numerator or denominator of the above ratio.

E.2.3 Performance

E.2.3.1 Benchmark Performance

All of the workstreams associated with the subsystem must meet the performance criteria proposed by the contractor. The interactive benchmarks